



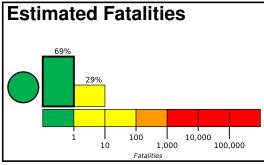


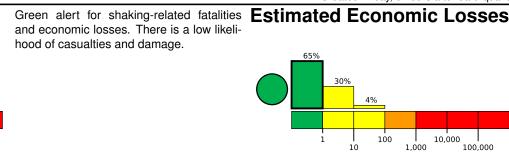
PAGER Version 3

Created: 1 day, 0 hours after earthquake

M 4.5, 7 km SE of Phala, Hawaii

Origin Time: 2023-12-29 01:16:31 UTC (Thu 15:16:31 local) Location: 19.1757° N 155.4111° W Depth: 15.5 km





Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		136k*	214k	2k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

20.4 ° N Kaji žir W 155.0 ° W 19.2 ° N Haw fian Ocean View N 18.1 ° N Respectively a separated and only considers passed up to structural damage.

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/hv73699997#pager

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1973-04-26	91	6.2	VII(74k)	0
2006-10-15	97	6.7	VIII(15k)	0
1975-11-29	50	7.2	IX(30k)	2

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org **MMI** City Population IV Pahala 1k Ш Volcano 3k Ш **Hawaiian Ocean View** 4k Ш Fern Acres 2k Ш Mountain View 4k Ш Hawaiian Paradise Park 11k П Hilo 43k Kailua-Kona Ш 12k Ш Kahului 26k Kihei 21k

l Wailuku bold cities appear on map.

(k = x1000)

15k